

Automatic Pressure Control System



APN30 Control Unit

Box model

General Description

The APN30 is an automatic pressure controller regulated by the RS232C or sequencer. The APN30 together with AVR series throttling valve and vacuum gauge can independently control the process chamber pressure by automatically regulating the vacuum pumping speed. The APN30 requires either the computer or sequencer to operate. The power supply should be $\pm 15\text{VDC}$. With the convenient local function valve position can be changed manually during the process without intermitting the transmission. All the control, including the PID, is enabled by a digital signal. The box is so compact that it can be installed in a very small space.

The AVR series has throttle valves are of various types available, such as one that is self-heating and one that has wings. Models of various diameters from one to 12 inches are also available. All have a simple structure and reliable design.

Features

- The compact unit can be installed in a limited space.
- It can be controlled either by the RS232C or sequencer.
- The pressure control and valve position control can be switched over during the process.
- Valve open/close can manually be activated during the control.
- A digital PID is required.
- The valve is simply D.D. driven thereby keeping the focus on maintenance.

Specifications

- Power supply : $\pm 15\text{ VDC @}500\text{ mA}$
- Output power : $\pm 15\text{V DC @}500\text{ mA}$
- Pressure input signal : 0-10 VDC FS
- RS232C interface :
 - Pressure/valve position setting
 - PID parameter setting
 - Valve open/close
- Analog interface :
 - Pressure setting(0-10 VDC)
 - Valve position setting(0-9 VDC)
- Dimensions : H=67 W=175 D=150



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